

Professional Audio Service Bulletin



Bulletin No. 5A (Supersedes Bulletin #5 dated January, 1974)
Date JULY, 1979

SUBJECT: Signal Electronics PC Board Modification to Read Digital Code (SMPTE) at Rewind and Fast FWD Speeds.

APPLICABLE TO: All M-79 Professional Audio Recorders using SMPTE Time Code Equipment.

PURPOSE: To Extend Signal Bandwidth

REQUIRED PARTS: 1 ea. 10K ohm 1/4W Resistor Mincom Catalog #83-1520-7308
1 ea. IC-LM318 Mincom Catalog #83-1530-8263
2 ea. .01 uf Capacitors Mincom Catalog #83-1510-1048
1 ea. 15pF Capacitor Mincom Catalog #83-1510-5265

PROCEDURE: In most cases, the last or edge track is modified to read code in the electronics, i.e., track 8 on 8 track machine.

1. Install R127, the 10K 1/4W resistor: See Note 6 of the Signal Electronics Schematic, Figure 6-10 or 6-12 of the M-79 Manual.
2. Remove CR5, 1N270 (Clip out).
3. Remove IC4, the 741, and install a .01 uf capacitor from the socket of IC4 pin 11 to ground. NOTE: Install the capacitor as close as possible to pin 11.
4. Install the LM318 in place of the 741.
5. Install a .01 uf capacitor from the collector of Q32 in the reproduce pre-amp to ground. Install this capacitor as close as possible to the collector.
6. Install the 15pF capacitor from pin 3 to pin 10 of IC4.
7. Remove (clip out) L1 and C5 in the line amp circuit.
8. De-tune the 15 ips equalizers, both Norm and Sync, by turning all 6 pots fully CCW.

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